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To: Distribution
From: S.Dunaeva, O.Svhwerer
Subject: **Isomer extension in REACTION SF2**

The EXFOR Manual (bottom of page 6.2) says about the contents of REACTION SF2:

- a) a particle code from Dictionary 33..., or
- b) for particles heavier than alpha, a code in the form Z-S-A (*isomer field omitted*).

We propose to change this, so to allow metastable state codes (other than the ground state) to appear in SF2, using the same rule and wording as for SF1 (Z-S-A-X where X may not have the value G).

(The reason for the old rule was that, for any nuclide which has a metastable state, the ground state must be coded with -G. To avoid many unnecessary and disturbing occurrences of -G, an exception for SF1 was always foreseen. Now, with the increased use of radioactive beams, we need the same exception also for SF2).

Item b) on manual page 6.2 will now read:

.....

- b) for particles heavier than alpha, a code in the form Z-S-A-X (X may not have the value G).

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